

MODEL 120A

STRIP PRINTER



- Low cost
- Full alpha-numeric
- 1200 characters per minute
- 3" x 6 $\frac{1}{4}$ " x 8 $\frac{5}{8}$ "
- Less than 5 lbs.

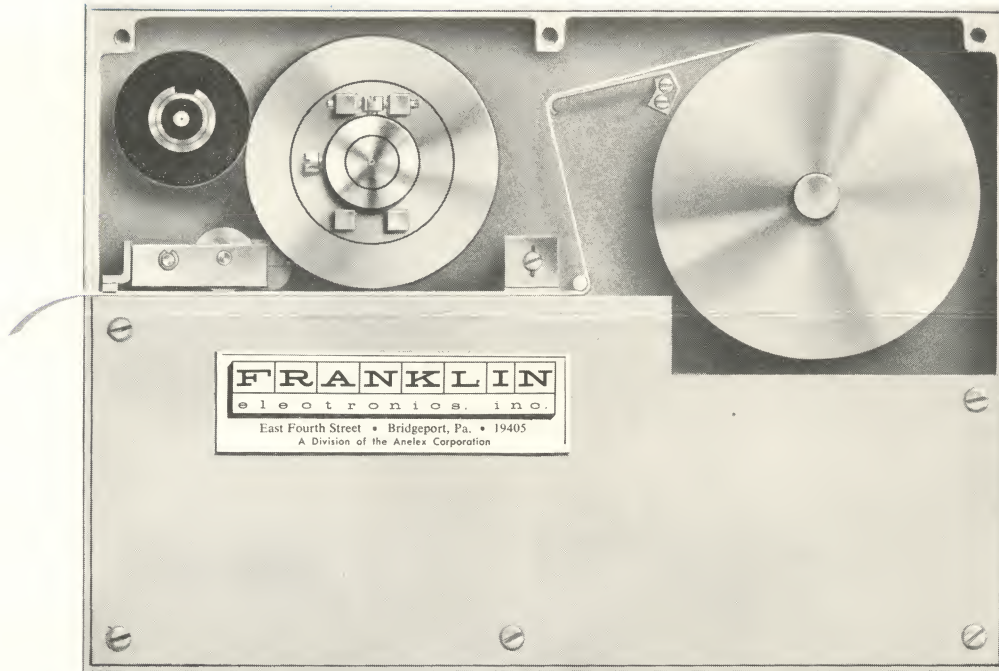
THERE IS NOTHING YOU CAN'T PRINT ON A MODEL 120A...ABSOLUTELY NOTHING...

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Model 120A Strip Printer . . .

a versatile, low-cost strip printer for computer and instrumentation engineers

The Franklin Model 120A Strip Printer fills the need for a low-cost monitoring recorder. It is for use in any system where a direct readout of digitally-coded information is desired, but where the cost of a large size, multiple-column printer is prohibitive.

The Model 120A provides a full complement of characters—the alphabet, numerals, punctuation marks and various signs and symbols. (See strip at bottom of these pages for characters and sequence.)

As described in this bulletin, the Model 120A is furnished complete, ready for operation from the user's power supply and electronics. Where desired, Franklin Electronics can furnish the power supply and electronics.

Printout of any character takes place with the application of a 26 V pulse when the proper character is in position with respect to the print hammer. Synchronizing pulses, to indicate character position, are provided by a reluctance pick-up. The absence of a pulse, signals the beginning of the string of character pulses.

The use of an inking roller is an optional feature which eliminates the need for an inked ribbon and the associated ribbon-takeup and rewind mechanism. Its omission permits the convenient use of self-inking "Action" or "NCR" paper where desired.

Special versions of the Model 120A will be quoted for systems manufacturers to meet their special needs.

! " # \$ % & ' () * + , - . / 0 1 2 3 4 5 6 7 8 9 : ; < = > ? @

SPECIFICATIONS / MODEL 120A STRIP PRINTER

PRINTING RATE

20 characters per second, average.

VARIETY OF CHARACTERS

Choice of any 63 of 64 characters consisting of complete alphabet; numerals 0 through 9; various punctuation marks, signs, and symbols.

SEQUENCE OF CHARACTERS ON DRUM

The characters are arranged on the print drum so that they proceed through the print position in the order used in the ASCII code. This order is shown on the tape stretching across the bottom of these pages.

CHARACTER SPACING AND SIZE

10 characters per inch. Letters of the alphabet are all capitals; characters printed are .100" high x .065" wide.

READOUT

Characters print with vertical axis perpendicular to longitudinal axis of paper strip.

PAPER STOCK

1/2" wide roll approx. 200 ft. long. Roll measures 3" O.D. x 7/16" I.D. Uses standard paper, or self-inking impact paper such as "Action" or "NCR."

INKING METHOD

None required with self-inking impact paper. Ink-impregnated rubber roller for standard paper is optional extra.

OUTPUT SIGNALS

Character Position: Reluctance pickup gives one pulse per character. Pulse train is a modified sine wave $2.0\text{ V} \pm \frac{1}{2}\text{ V}$ peak-to-peak with 0.782 ms period. Source impedance, 98 ohms.

Start of Character Sequence (Sync): Missing 64th pulse in character train. Sync pulse may be shifted in user's electronics to eliminate printing of any one of the 64 characters engraved on the print drum.

Paper Out (Optional Extra): Contact closure.

POWER REQUIREMENTS

Print Drum Drive: 105-125 V, 60 cps, single phase, 0.2 A.

Hammer Drive (Print Solenoid): Non-ringing 26 V pulse, 3.5 A, 1.3 ms duration, two-wire ungrounded.

Paper Shift Drive: Non-ringing 26 V pulse, 3.5 A, 3-8 ms duration (adjustable), two-wire ungrounded.

MOUNTING

Side Mounting: Four No. 10-32 tapped holes on $7\frac{1}{16}" \times 5\frac{1}{2}"$ centers.

Bottom Mounting: Four clearance holes for No. 10 screws on $1\frac{1}{2}" \times 6"$ centers.

Orientation: Printer is designed for mounting vertically as pictured. While the printer will operate if mounted lying on its back, parts wear will be somewhat greater than in the usual vertical mounting.

DIMENSIONS AND WEIGHT

$8\frac{5}{8}"$ D x 3" W x $6\frac{1}{4}"$ H. Less than 5 lbs.

ENGINEERING ASSISTANCE

Franklin Electronics manufactures Digital Printers in a wide variety of configurations. Where unusual applications are involved, Franklin Electronics will be pleased to suggest various solutions and alternatives.

The back cover of this bulletin lists the basic characteristics of various series of Franklin Digital Printers. Within each series, a broad range of characteristics is available. For complete information on any printer type, please request the referenced bulletin.

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z [\] ↑ →

QUICK REFERENCE GUIDE TO FRANKLIN DIGITAL PRINTERS

SERIES 1200 GENERAL-PURPOSE DIGITAL PRINTERS

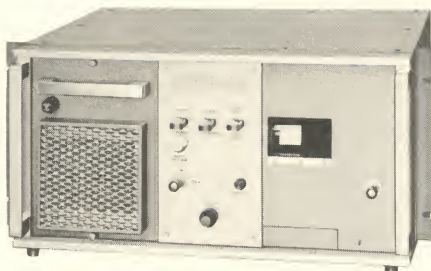
12 Columns • 20 Lines Per Sec. • Numeric



A low-cost favorite of the OEM. Furnished complete with all electronics and power supply. Solid-state, modular construction. Operates from 4-wire, bit-parallel, column-parallel binary or BCD inputs. Accepts 8421, 4221, or 2421 input without need for electrical changes of any kind. Rugged construction includes monolithic, main-body casting. Fits standard 19" rack or can be used on table. Panel height 10½". Depth 19½". Weight 85 lbs. See Bulletin 2050A.

SERIES 2200 HIGH-VERSATILITY DIGITAL PRINTERS

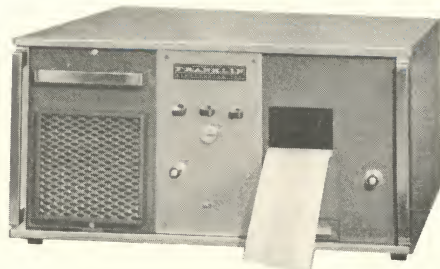
22 Columns • 40 Lines Per Sec. • Numeric or Alpha-Numeric



A high capacity, versatile printer. Furnished complete with power supply and all electronics for 4- or 6-wire parallel data input. All solid-state modular construction. Print rate is 40 lines per second numeric and 20 lines per second alpha-numeric. Higher, lower and intermediate print rates available, depending upon user's requirements. Mounts in standard 19" rack or can be table mounted. Panel height only 8¾". Adjustable mounting brackets for rack depths from 18" to 26". Flush mounting requires 26". Weight is 104 lbs. See Bulletin 2302.

SERIES 1000 HIGH-PERFORMANCE DIGITAL PRINTERS

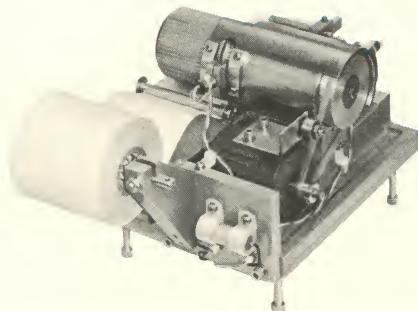
20 Columns • 40 Lines Per Sec. • Numeric and Alpha-Numeric



Series 1000 Printers offer the ultimate in printer performance and versatility. They are the standard by which many manufacturers judge printer performance. They accept binary, BCD, ten-line, and mixed-code inputs. They operate synchronously or asynchronously without loss of print rate. Although nominally rated at 40 lines per second, models are available for use at higher or lower print rates. Dimensions are 8¾" panel height x 19" W x 23½" D. Movable mounting brackets provide for mounting in shallow 18" racks. Weight is 104 lbs. See Bulletin 2301.

SERIES M-1000 MILITARIZED DIGITAL PRINTERS

40 Lines Per Sec. • Numeric and Alpha-Numeric



Ruggedized, militarized digital printer. Wide variety of models customarily altered to meet user's specific requirements; includes parallel or serial entry units. All types of input codes available. Number of columns can vary up to 24. Furnished with or without electronics and power supply. Has many of the characteristics of the Series 1000 printers. See Bulletin MIL.

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